

## **GROUNDWATER MONITORING REPORT SECOND QUARTER 2006**

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**FORMER GASAMAT #953  
3185 SANTA ROSA AVENUE  
SANTA ROSA, CALIFORNIA**



**GEOCON**  
CONSULTANTS, INC

GEOTECHNICAL  
ENVIRONMENTAL  
MATERIALS

PREPARED FOR

**GASAMAT OIL CORPORATION OF COLORADO  
3223 ARAPAHOE AVENUE  
BOULDER, COLORADO  
80205-2738**

**GEOCON PROJECT NO. E8299-06-01**

**JUNE 2006**



Project No. E8299-06-01

June 21, 2006

Mr. Cliff Ives  
County of Sonoma Department of Health Services  
Environmental Health Division  
475 Aviation Boulevard, #220  
Santa Rosa, California 95403

Subject: GROUNDWATER MONITORING REPORT  
SECOND QUARTER 2006  
FORMER GASAMAT #953  
3185 SANTA ROSA AVENUE  
SANTA ROSA, CALIFORNIA

Dear Mr. Ives:

Geocon has prepared the *Groundwater Monitoring Report, Second Quarter 2006*, for the Former Gasamat #953 site. The report contains details of field services and laboratory analytical results.

Please contact the undersigned if you have any questions or comments.

Sincerely,

**GEOCON CONSULTANTS, INC.**

Richard Dreessen, CEG  
Project Geologist



RSD: RWD: rjk

John Love, PG  
Senior Project Geologist

- (1) Addressee
- (1) RWQCB – North Coast Region
- (1) Client
- (1) UST Cleanup Fund

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## **SECOND QUARTER 2006 GROUNDWATER MONITORING REPORT**

### **1.0 INTRODUCTION**

On behalf of Gasamat Corporation of Colorado, Geocon performed quarterly groundwater monitoring for the Former Gasamat Station No. 953 located at 3185 Santa Rosa Avenue, Santa Rosa, Sonoma County, California (Figure 1). The quarterly groundwater sampling was performed in response to the County of Sonoma Department of Health Services (DHS) letter dated October 3, 2005.

#### **1.1 Background**

In 1998 the site existed as a Gasamat gasoline station and had four underground storage tanks (USTs) containing gasoline. Two of the tanks were 8,000 gallons in capacity and the other two were 10,000 gallons in capacity.

In October 1998, a subsurface investigation was conducted in conjunction with the facility upgrade of the fuel storage and delivery system. Ten soil borings were advanced adjacent to the USTs and associated product piping. Results of the investigation indicated that petroleum hydrocarbon compounds, including methyl tertiary butyl ether (MTBE) had impacted subsurface soil and groundwater. The primary source of the contamination appeared to be a release near the south end of UST #3 (see Figure 2).

In November 1998, 16 additional soil borings were advanced to assess the lateral extent of impacted soil and groundwater beneath the site and adjacent property to the south (3219 Santa Rosa Avenue, known as Henry's Used Car Lot). As a result of the October and November 1998 investigations, four monitoring wells (MW-1 through MW-4) and two extraction wells (EW-1 and EW-2) were constructed in December 1998. Monitoring wells MW-1 and MW-2 were constructed on the Gasamat property, and MW-3 and MW-4 were constructed on the Henry's Used Car Lot property.

In November 1999, monitoring well MW-5 was constructed to provide qualitative data associated with a dual-phase extraction pilot test scheduled for extraction well EW-2 in December 1999. The only well located within a relatively close proximity of EW-2 prior to the construction of MW-5 was extraction well EW-1.

In December 1999, the pilot test was conducted at extraction well EW-2. The results of the pilot test indicated that subsurface soil and groundwater conditions were favorable towards the selection of dual-phase extraction as a remediation method at the site.

In September 2002, monitoring wells MW-6 and MW-7 were constructed to further define the lateral extent of contamination. Active remediation had not yet been conducted at the site because negotiation was underway to fund the remediation project under the State's pay-for-performance program, and the new monitoring wells (MW-6 and MW-7) would be necessary to evaluate the effectiveness of the proposed remediation system for future cleanup reimbursement purposes. The pay-for-performance reimbursement mechanism was later abandoned due to regulatory costs associated with the disposal of treated groundwater.

Groundwater monitoring has been conducted at the site from 1998 through early 2004. In February 2004, monitoring wells MW-3 and MW-4 were destroyed to facilitate redevelopment of 3219 Santa Rosa Avenue for the site's new owner, Redwood Credit Union. Groundwater monitoring resumed October 20, 2005, at the direction of Department of Health Services (DHS).

On February 2 and 3, 2006, three additional monitoring wells (MW-8, MW-9, and MW-10) were constructed at 3219 Santa Rosa Avenue (the Redwood Credit Union property), and three additional direct-push borings were advanced along the sanitary sewer line located beneath Santa Rosa Avenue to assess whether this utility is providing a preferential pathway for the southward migration of petroleum hydrocarbon compounds. The results of the investigation were presented in a report entitled *Additional Investigation Report*, dated March 22, 2006.

## **2.0 QUARTERLY GROUNDWATER MONITORING**

Quarterly groundwater sampling was conducted on April 19, 2006.

### **2.1 Water Level Measurements and Groundwater Flow Direction**

Prior to groundwater sample collection, depth to groundwater was measured in each well using a battery-operated water level meter. The depth to groundwater ranged from 3.41 feet below the top of the well casing in MW-2 to 5.46 feet in MW-7.

Well construction details for each monitoring well are presented in Table 1. A summary of historical depth to groundwater measurements for each monitoring well is presented in Table 2.

The hydraulic gradient beneath the site, as shown on Figure 3, is towards the northeast at approximately 0.014 foot per foot (ft/ft). South of the site, the hydraulic gradient is towards the southeast at 0.02 ft/ft.

### **2.2 Groundwater Sampling Procedures**

Monitoring wells were purged using a battery operated submersible pump. The submersible pump was decontaminated between each well using a non-phosphate detergent and deionized water rinse. A minimum of three well casing volumes of groundwater was removed from each well prior to sample collection. Purged groundwater was monitored for temperature, pH and conductivity to insure that groundwater samples were representative of the aquifer formation. The well purge process was considered complete when these parameters had stabilized. After the water level in each well had recovered at least 80 percent of its pre-purge volume, a groundwater sample was collected for laboratory analysis. Groundwater samples were collected using disposable polyethylene bailers equipped with volatile organic compound (VOC) sample ports designed to minimize aeration of groundwater samples during transfer from the bailer to the sample containers. One groundwater sample was also collected from one onsite domestic-use well (WW-1). The sample was collected from the spigot located a few feet from the wellhead after the water was allowed to run for 15 minutes.

Groundwater samples were containerized in 40-milliliter glass vials preserved with hydrochloric acid (HCl), and delivered under chain-of-custody protocol to Entech Analytical Labs, Inc., a state of California certified laboratory located in Santa Clara, California. Copies of the monitoring well data sheets are provided in Appendix A (Note: The monitoring well sampling data sheet for MW-1 was lost in transit. Groundwater level data was taken from the field map created during groundwater measurements taken onsite).

## **2.3 Groundwater Sample Analyses**

Groundwater samples collected from the monitoring and extraction wells were analyzed for total petroleum hydrocarbon compounds as gasoline (TPHg), benzene, toluene, ethylbenzene, xylenes (BTEX), and methyl tertiary butyl ether (MTBE) following EPA Test Method 8260B. The water sample collected from WW-1 was also analyzed for trichloroethene (TCE) following EPA Test Method 8260B.

## **2.4 Groundwater Sample Results**

Target analyte concentrations in groundwater samples collected from wells MW-1, MW-2, MW-8, and MW-10 were below laboratory reporting limits.

TPHg was detected at concentrations above the reporting limit of 0.050 milligrams per liter (mg/l) in groundwater samples collected from MW-5, MW-6, MW-9, and EW-2, all positioned within 100 feet of the south end of UST #3. Detected TPHg concentrations ranged from 1.5 mg/l in MW-9 to 54 mg/l in the groundwater sample collected from MW-6.

BTEX and/or MTBE were detected in groundwater samples collected from MW-5, MW-6, MW-7, MW-9, EW-1 and EW-2. Detected benzene concentrations ranged from 85 micrograms per liter (ug/l) in MW-9 to 4,100 ug/l in MW-6. Detected MTBE concentrations ranged from 4.6 ug/l in MW-7 to 2,000 ug/l in MW-6.

TCE was reported at a concentration of 37 ug/l in the water sample collected from WW-1.

Compared to First Quarter 2006 results, TPHg concentrations increased in MW-5 and decreased in EW-2, BTEX concentrations increased in EW-2, and both TPHg and BTEX concentrations increased in MW-6. BTEX concentrations decreased in MW-5.

A summary of historical groundwater sample results is presented in Table 2. Appendix B presents the laboratory Certificate of Analysis-Final Report and the Chain of Custody/Analysis Request documentation.

## **2.5 Waste Disposal**

Purge water generated during the Second Quarter 2006 sample event was transported to the Geocon warehouse in Sacramento, California for subsequent disposal.

### **3.0 CONCLUSIONS AND RECOMMENDATIONS**

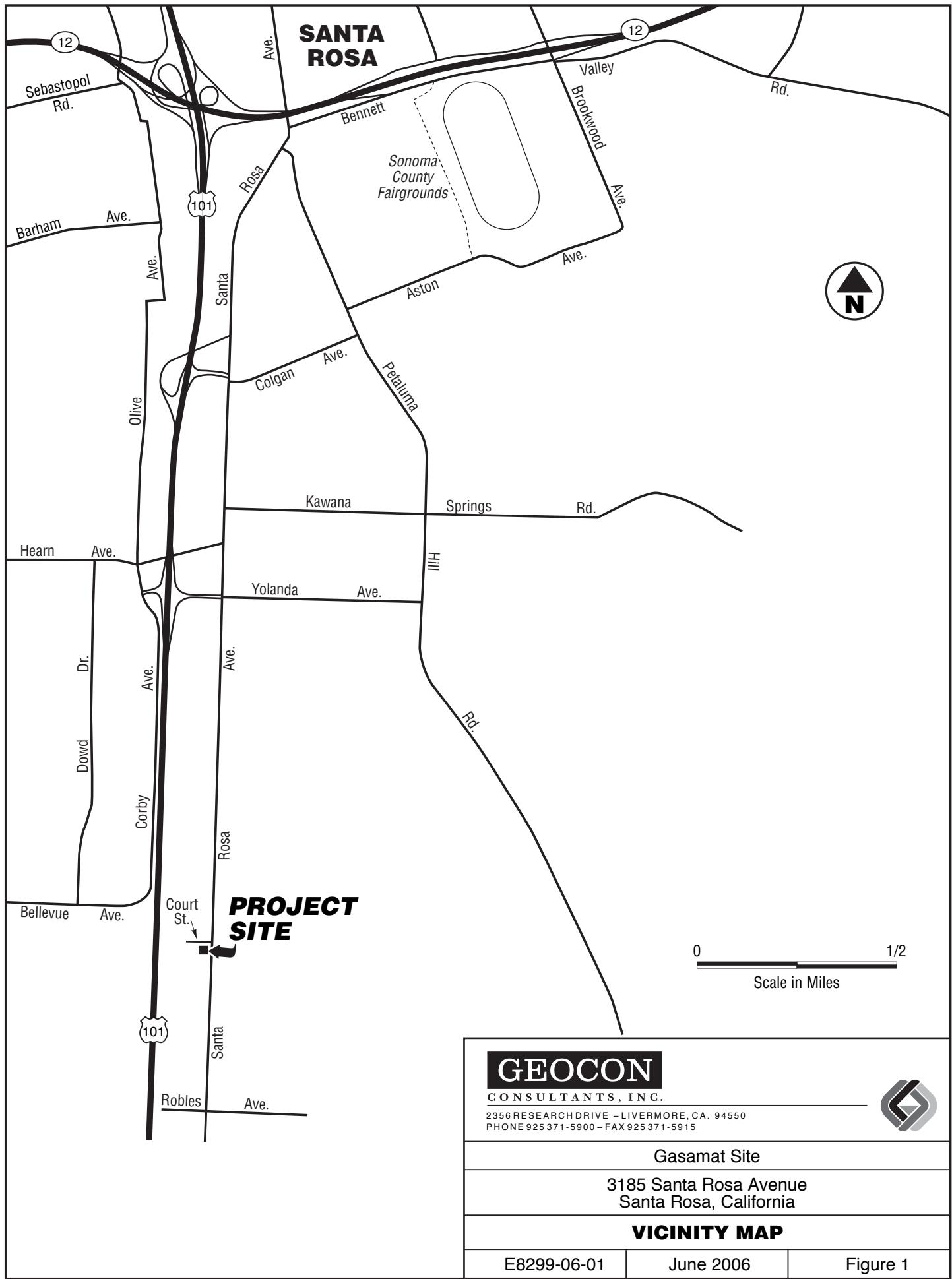
Contaminant concentrations reported during the Second Quarter 2006 monitoring event were generally within historical ranges.

Three additional monitoring wells (MW-8, MW-9, and MW-10) were sampled at the site as part of the Second Quarter sample event. MW-8 was constructed to monitor the down gradient portion of the plume, and MW-9 and MW-10 were constructed to replace former-monitoring wells MW-3 and MW 4, respectively.

Groundwater sample results from MW-8 and MW-10 were reported as non-detect for all target analytes. Groundwater sample results obtained from MW-8 and MW-10 are also consistent with historical sample results obtained from former monitoring wells MW-3 and MW 4. The sample results from MW-8 and MW-10 indicate the contaminant plume terminates somewhere north of these sample locations.

Groundwater samples obtained from MW-9 were reported to contain TPHg, benzene and MTBE at concentrations of 1.5 mg/l, 85 ug/l, and 36 ug/l, respectively. Toluene, ethylbenzene, and xylenes were also reported in the MW-9 groundwater sample at concentrations ranging from 6.6 ug/l to 53 ug/l.

Based on the results of this quarterly groundwater sample event, and past investigations, it appears the vertical and lateral extent of the contaminant plume has been adequately defined, and a corrective action plan (CAP) can be prepared to initiate active remediation at the site. Quarterly groundwater monitoring conducted during the last eight years indicates that without active remediation, contaminant concentrations are likely to persist indefinitely in shallow groundwater beneath the site and surrounding area, especially near the source area (UST #3).





#### LEGEND:

- MW-1** ● Approximate Groundwater Monitoring Well Location
- MW-3** ⊕ Approximate Destroyed Well Location
- EW-1** ○ Approximate Soil Vapor/Co-Extraction Well Location
- WW-1** ● Approximate Water Well Location
- [Dashed Box]** Approximate Former UST Location

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Gasamat Site

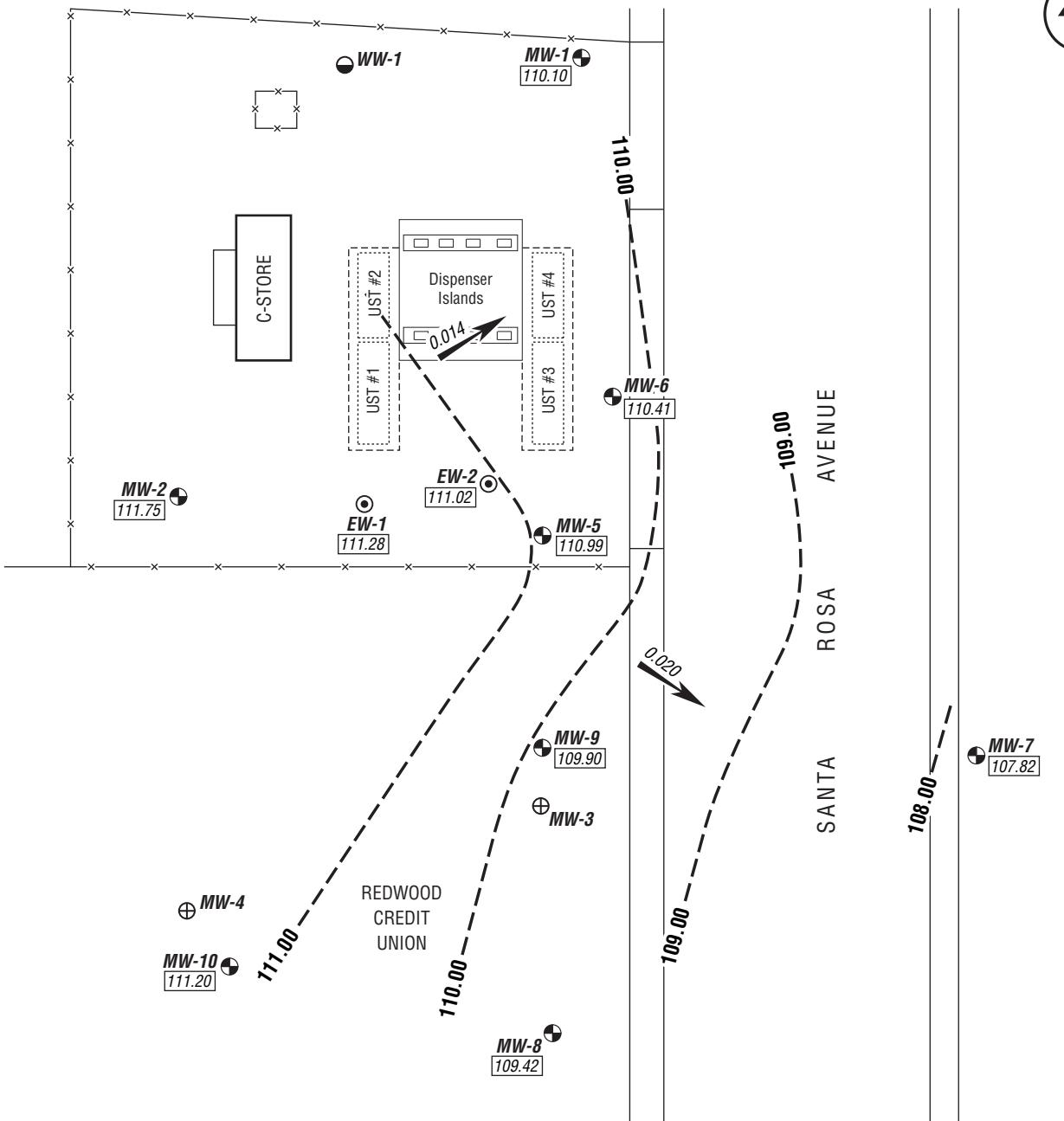
3185 Santa Rosa Avenue  
Santa Rosa, California

**SITE PLAN**

E8299-06-01

June 2006

Figure 2



#### LEGEND:

**MW-1** ● Approximate Groundwater Monitoring Well Location

**MW-3** ⊕ Approximate Destroyed Well Location

**EW-1** ○ Approximate Soil Vapor/Co-Extraction Well Location

**WW-1** ● Approximate Water Well Location

[ ] Approximate Former UST Location

— Groundwater Elevation Contour (Interval = 1.00 Ft.)

[109.42] MSL Elevation of Groundwater Measured on 4/19/06

0.020  
Approximate Groundwater Direction & Gradient

0 50  
Scale in Feet

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Gasamat Site

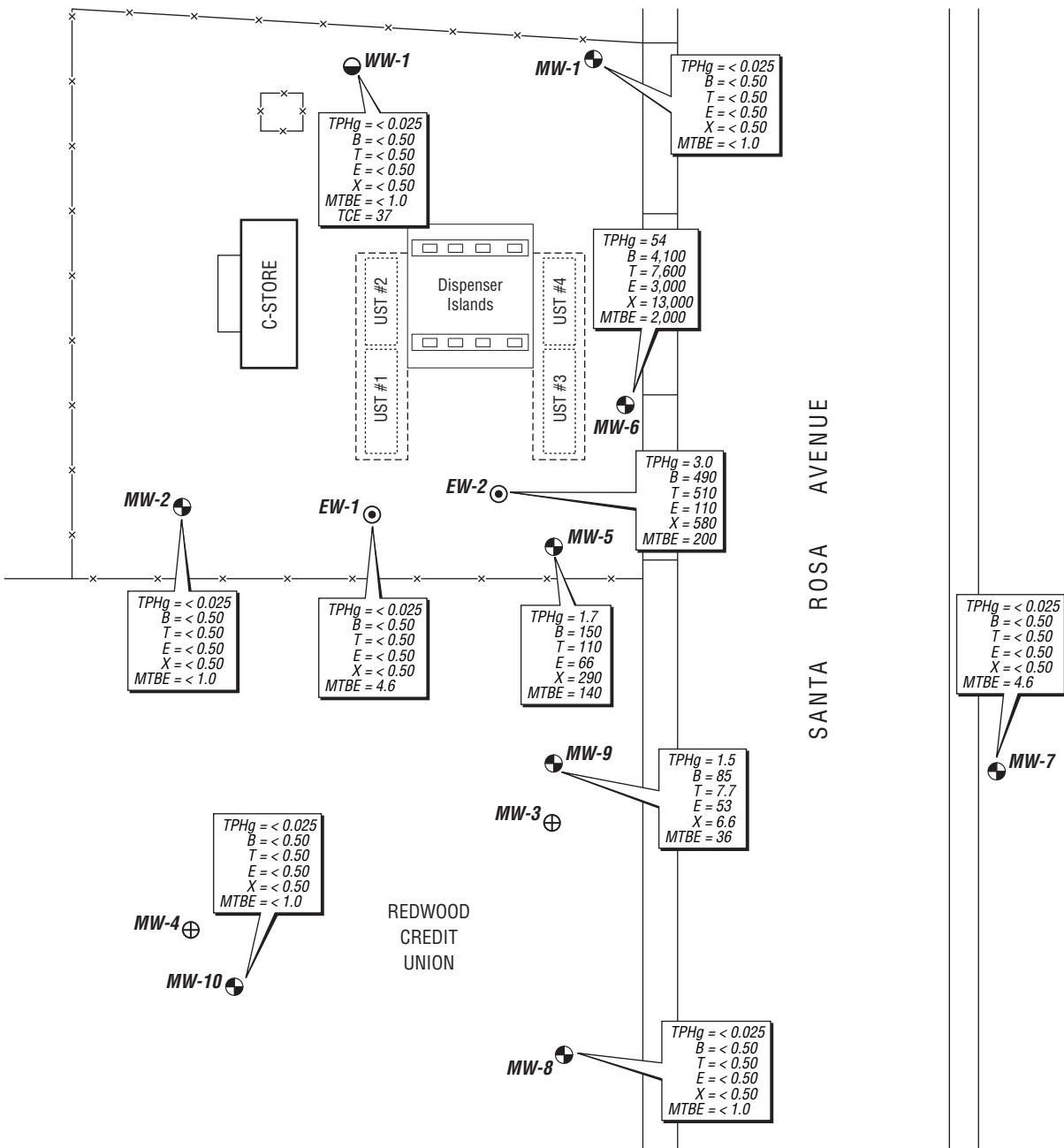
3185 Santa Rosa Avenue  
Santa Rosa, California

**Groundwater Elevation Map – April 2006**

E8299-06-01

June 2006

Figure 3



0 50  
Scale in Feet

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Gasamat Site

3185 Santa Rosa Avenue  
Santa Rosa, California

**Groundwater Sample Results - April 2006**

E8299-06-01

June 2006

Figure 4

**Table 1**  
**Well Construction Details**  
**Gasamat #953**  
**Santa Rosa, California**

Location	Construction Date	Well Type	Borehole Diameter (inches)	Borehole Depth (feet)	Casing Diameter (inches)	Screened Interval (feet)	Filter Pack (feet)	Bentonite Seal (feet)	Cement Seal (feet)
MW-1	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-2	12/10/98	MW	8	25.5	2	7-25.5	5-25.5	4-5	0-4
MW-3*	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-4*	12/10/98	MW	8	25	2	7-25	5-25	4-5	0-4
MW-5	11/29/99	MW	8	25	2	7-25	5-25	4-5	0-4
MW-6	09/16/02	MW	8	23	2	8-23	6-23	5-6	0-5
MW-7	09/16/02	MW	8	22	2	8-22	6-22	5-6	0-5
EW-1	07/20/99	EW	10	25	4	7-25	5-25	4-5	0-4
EW-2	07/20/99	EW	10	25	4	7-25	5-25	4-5	0-4
MW-8	02/03/06	MW	8	20	2	10-20	9-20	7-9	0-7
MW-9	02/03/06	MW	8	20	2	10-20	9-20	7-9	0-7
MW-10	02/03/06	MW	8	20	2	10-20	9-20	7-9	0-7

**Notes:**

MW - Monitoring Well

EW - Extraction Well

\* - Abandoned in February 2004

**Table 2**  
**Summary of Historical Depth to Water and Groundwater Sample Rest**  
**Gasamat #953**  
**Santa Rosa, California**

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet) (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet) (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-1	12/15/1998	115.31	7.47	107.84	--	<0.05	<0.5	<0.5	<0.5	<0.5	7.4	--
	3/30/1999	115.31	6.19	109.12	1.28	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	115.31	10.44	104.87	-4.25	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	115.31	5.21	110.10	5.23	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	115.31	8.46	106.85	-3.25	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	115.31	10.21	105.10	-1.75	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/11/2000	115.31	9.98	105.33	0.23	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	115.31	6.12	109.19	3.86	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	115.31	9.45	105.86	-3.33	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	115.31	10.80	104.51	-1.35	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	115.31	6.96	108.35	3.84	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	115.31	8.57	106.74	-1.61	<0.05	<0.3	<0.3	<0.3	<0.3	<5	--
	5/9/2002	115.31	9.18	106.13	-0.61	<0.05	<0.5	<0.5	<0.5	<0.5	<5	--
	9/25/2002	115.31	10.84	104.47	-1.66	<0.05	<0.5	<0.5	<0.5	<0.5	<5	--
	1/8/2003*	115.34	6.45	108.89	4.42	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	3/25/2003	115.34	7.77	107.57	-1.32	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	6/25/2003	115.34	9.41	105.93	-1.64	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	10/21/2003	115.34	11.30	104.04	-1.89	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	2/10/2004	115.34	6.85	108.49	4.45	<0.05	<0.5	<0.5	<0.5	<0.5	<1	--
	10/20/2005	115.34	9.99	105.35	-3.14	0.032	<0.50	*1.1	<0.50	<0.50	<1.0	--
	1/19/2006	115.34	5.68	109.66	4.31	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	--
	4/19/2006	115.34	5.24	110.10	0.44	<0.025	<0.50	<0.50	<0.50	<0.50	<1.0	--
MW-2	12/15/1998	114.29	4.98	109.31	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	114.29	3.30	110.99	1.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	114.29	9.05	105.24	-5.75	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	114.29	2.37	111.92	6.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	114.29	7.40	106.89	-5.03	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	114.29	9.93	104.36	-2.53	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/12/2000	114.29	9.45	104.84	0.48	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/22/2001	114.29	3.52	110.77	5.93	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	114.29	8.55	105.74	-5.03	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	114.29	10.86	103.43	-2.31	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	114.29	5.20	109.09	5.66	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	2/7/2002	114.29	6.39	107.90	-1.19	<0.05	<0.3	<0.3	<0.3	<0.6	<5	--
	5/9/2002	114.29	8.47	105.82	-2.08	<0.05	<0.5	<0.5	<0.5	<1.5	<5	--
	9/25/2002	114.29	10.91	103.38	-2.44	<0.05	<0.5	<0.5	<0.5	<1.0	<5	--
	1/8/2003*	115.16	4.35	110.81	7.43	<0.05	<0.5	<0.5	<0.5	<1.0	<5	--

Table 2  
Summary of Historical Depth to Water and Groundwater Sample Rest.  
Gasamat #993  
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)  MW-2 continued	Groundwater Elevation (feet amsl)	Change in Elevation (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-2	3/25/2003	115.16	6.32	108.84	-1.97	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	6/25/2003	115.16	8.88	106.28	-2.56	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	10/21/2003	115.16	11.50	103.66	-2.62	<0.05	<0.5	<0.5	<0.5	<1.0	<1.0	--
	2/10/2004	115.16	5.27	109.89	6.23	<0.05	<0.5	<0.5	<0.5	<1	<1	--
	10/20/2005	115.16	10.20	104.96	-4.93	<0.025	<0.50	*0.99	<0.50	<1.0	<1.0	--
	1/19/2006	115.16	3.51	111.65	6.69	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	--
	4/19/2006	115.16	3.41	111.75	0.10	<0.025	<0.50	<0.50	<0.50	<1.0	<1.0	--
MW-3	12/15/1998	113.78	5.97	107.81	--	0.1	0.8	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	113.78	4.39	109.39	1.58	0.5	54	2.4	23.0	6.3	64	--
	7/14/1999	113.78	8.93	104.85	-4.54	1.1	67	4.0	3.5	<2.5	400	--
	2/23/2000	113.78	3.21	110.57	5.72	0.26	<0.5	2.8	<0.5	<0.5	570	<1.0
	5/24/2000	113.78	6.92	106.86	-3.71	0.64	13.0	<0.5	<0.5	<0.5	430	--
	8/2/2000	113.78	8.86	104.92	-1.94	1.2	21	<0.5	<0.5	<0.5	740	--
	11/21/2000	113.78	8.64	105.14	0.22	1.6	210	3.5	<2.5	<2.5	1,100	--
	2/22/2001	113.78	4.07	109.71	4.57	<0.05	<0.5	<0.5	<0.5	<0.5	409	--
	5/10/2001	113.78	7.95	105.83	-3.88	0.73	3.0	<2.5	<2.5	<2.5	677	--
	8/16/2001	113.78	9.75	104.03	-1.80	0.86	160	<2.5	<2.5	<2.5	1,800	--
	11/29/2001	113.78	5.66	108.12	4.09	<0.25	<2.5	<2.5	<2.5	<2.5	1,700	--
	2/7/2002	113.78	6.36	107.42	-0.70	0.11	0.8	<0.3	<0.3	<0.6	320	<5
MW-3 Abandoned in February 2004	5/9/2002	113.78	7.87	105.91	-1.51	0.33	3.7	5.8	<0.5	<1.5	540	--
	9/25/2002	113.78	9.85	103.93	-1.98	2.5	410	<20	<20	<40	2,100	--
	1/8/2003	113.84	4.62	109.22	5.29	0.41	<2.5	3.5	<2.5	<5.0	700	--
	3/25/2003	113.84	6.32	107.52	-1.70	0.32	1.4	<1.25	<1.25	<2.5	370	--
	6/25/2003	113.84	8.04	105.80	-1.72	0.77	4.9	<2.5	<2.5	<5	470	--
	10/21/2003	113.84	10.39	103.45	-2.35	1.0	31	<5	<5	<10	1,300	--
	2/10/2004	113.84	5.30	108.54	5.09	0.21	<1	<1	<1	<2	210	--
	12/15/1998	113.79	5.12	108.67	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
	3/30/1999	113.79	3.31	110.48	1.81	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	7/14/1999	113.79	8.99	104.80	-5.68	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	2/23/2000	113.79	1.84	111.95	7.15	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	--
	5/24/2000	113.79	6.45	107.34	-4.61	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/2/2000	113.79	8.97	104.82	-2.52	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	11/21/2000	113.79	8.84	104.95	0.13	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
MW-4	2/22/2001	113.79	2.81	110.98	6.03	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	5/10/2001	113.79	7.82	105.97	-5.01	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--

Table 2  
Summary of Historical Depth to Water and Groundwater Sample Results  
Gasamat #053  
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)	Groundwater Elevation (feet amsl)	Change in Elevation (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
<b>MW-4 Abandoned in February 2004</b>												
MW-4 continued	8/16/2001	113.79	9.93	103.86	-2.11	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	11/29/2001	113.79	5.28	108.51	4.65	<0.05	<0.5	<0.5	<0.3	<0.3	<2.5	--
	2/7/2002	113.79	5.64	108.15	-2.12	<0.05	<0.5	<0.5	<0.5	<1.5	<5	--
	5/9/2002	113.79	7.76	106.03	-2.32	<0.05	<0.5	<0.5	<0.5	<1.0	<5^	--
	9/25/2002	113.79	10.08	103.71	-6.15	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	1/8/2003	113.80	3.94	109.86	-1.65	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	3/25/2003	113.80	5.59	108.21	-2.46	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	6/25/2003	113.80	8.05	105.75	-2.45	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	10/21/2003	113.80	10.50	103.30	-5.99	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	2/10/2004	113.80	4.51	109.29	<1	<1	<1	<1	<1	<1	--	--
<b>MW-5</b>												
MW-5	2/23/2000	115.22	3.53	111.69	--	8.7	940	850	370	1,700	1,800	<1.0
	5/24/2000	115.22	7.85	107.37	-4.32	1.9	160	160	77	420	160	--
	8/2/2000	115.22	10.10	105.12	-2.25	1.9	240	120	42	230	310	--
	11/21/2000	115.22	9.62	105.60	0.48	1.2	100	34	14	71	750	--
	2/22/2001	115.22	4.71	110.51	4.91	8.2	715	886	259	1,280	6,460	--
	5/10/2001	115.22	8.89	106.33	-4.18	6.7	558	747	175	913	2,360	--
	8/16/2001	115.22	10.91	104.31	-2.02	1.1	120	53	19	110	950	--
	11/29/2001	115.22	6.16	109.06	4.75	6.6	630	780	280	1,300	3,900	--
	2/7/2002	115.22	7.02	108.20	-0.86	6.6	618	684	213	1,030	1,100	<5
	5/9/2002	115.22	8.81	106.41	-1.79	6.0	650	630	220	1,070	1,100	--
	9/25/2002	115.22	10.98	104.24	-2.17	1.5	240	76	43	120	360	--
	1/8/2003	115.22	5.21	110.01	5.77	6.4	470	400	180	810	1,100	--
	3/25/2003	115.22	7.02	108.20	-1.81	3.1	310	180	73	350	290	--
	6/25/2003	115.22	9.17	106.05	-2.15	3.8	450	210	110	490	750	--
	10/21/2003	115.22	11.57	103.65	-2.40	1.2	130	40	25	61	170	--
	2/10/2004	115.22	6.01	109.21	5.56	5.0	430	200	100	420	1,400	--
	10/20/2005	115.22	10.32	104.90	-4.31	0.057	1.3	*1.3	<0.50	0.92	48	--
	1/19/2006	115.22	4.51	110.71	5.81	3.9	240	190	130	310	310	--
	4/19/2006	115.22	4.23	110.99	0.28	1.7	150	110	66	290	140	--
<b>MW-6</b>												
MW-6	9/25/2002	115.04	10.67	104.37	--	18	1,300	420	510	660	22,000	--
	1/8/2003	115.04	5.88	109.16	4.79	93	7,500	10,000	3,200	15,000	8,500	--
	3/25/2003	115.04	7.34	107.70	-1.46	62	5,200	7,300	2,500	11,000	8,800	--
	6/25/2003	115.04	9.15	105.89	-1.81	45	4,900	4,500	2,000	8,200	6,400	--
	10/21/2003	115.04	11.19	103.85	-2.04	28	360	840	980	19,000	--	--
	2/10/2004	115.04	6.37	108.67	4.82	83	4,400	6,000	2,400	9,900	11,000	--
	10/20/2005	115.04	9.93	105.11	-3.56	13	2,300	42	800	370	1,500	--
	1/19/2006	115.04	4.98	110.06	4.95	52	2,400	3,900	2,400	8,000	52,000	--
	4/19/2006	115.04	4.63	110.41	0.35	54	4,100	7,600	3,000	13,000	2,000	--

Table 2  
Summary of Historical Depth to Water and Groundwater Sample Results  
Gasamat #453  
Santa Rosa, California

Location	Date	TOC Elevation (feet amsl)	Depth to Water (feet)  MW-7	Groundwater Elevation (feet amsl)	Change in Elevation (feet)  MW-8	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethybenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
MW-7	9/25/2002	114.22	10.68	103.54	--	<0.05	<0.5	<0.5	<0.5	<1.0	7.9	--
	1/8/2003	114.22	7.27	106.95	3.41	<0.05	<0.5	<0.5	<0.5	<1.0	4.5	--
	3/25/2003	114.22	7.89	106.33	-0.62	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	6/25/2003	114.22	9.32	104.90	-1.43	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	10/21/2003	114.22	11.26	102.96	-1.94	<0.05	<0.5	<0.5	<0.5	<1.0	--	--
	2/10/2004	114.22	7.31	106.91	3.95	<0.05	<0.5	<0.5	<0.5	<1	--	--
	10/20/2005	114.22	9.98	104.24	-2.67	<0.025	<0.50	*0.85	<0.50	<0.50	6.2	--
	1/19/2006	114.22	6.46	107.76	3.52	<0.050	<0.50	<0.50	<0.50	<0.50	1.1	--
	4/19/2006	114.22	6.40	107.82	0.06	<0.025	<0.50	<0.50	<0.50	<0.50	4.6	--
MW-8	4/19/2006	114.13	4.71	109.42	--	<0.025	<0.50	<0.50	<0.50	<0.50	<1.0	--
MW-9	4/19/2006	115.36	5.46	109.90	--	1.5	85	7.7	53	6.6	36	--
MW-10	4/19/2006	115.70	4.50	111.20	--	<0.025	<0.50	<0.50	<0.50	<1.0	--	--
EW-1	12/15/1998	115.19	6.41	108.78	--	<0.05	<0.5	<0.5	<0.5	<0.5	57	<0.5
	3/30/1999	115.19	4.70	110.49	1.71	<0.05	<0.5	<0.5	0.6	0.6	<5.0	--
	7/14/1999	115.19	10.08	105.11	-5.38	0.16	<0.5	<0.5	<0.5	<0.5	7.2	--
	2/23/2000	115.19	3.13	112.06	6.95	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	<1.0
	5/24/2000	115.19	7.75	107.44	-4.62	<0.05	<0.5	<0.5	<0.5	<0.5	<5.0	--
	8/21/2000	115.19	10.14	105.05	-2.39	<0.05	<0.5	<0.5	<0.5	<0.5	26	--
	11/21/2000	115.19	9.55	105.64	0.59	0.11	0.8	2.6	1.0	5.1	81	--
	2/22/2001	115.19	4.33	110.86	5.22	<0.05	<0.5	<0.5	<0.5	<0.5	3.8	--
	5/10/2001	115.19	8.77	106.42	-4.44	<0.05	<0.5	<0.5	<0.5	<0.5	<2.5	--
	8/16/2001	115.19	10.91	104.28	-2.14	0.36	1.0	<1.0	<1.0	<1.0	96	--
EW-2	11/29/2001	115.19	5.73	109.46	5.18	<0.05	<0.5	<0.5	<0.5	<0.5	5.3	--
	2/7/2002	115.19	6.82	108.37	-1.09	<0.05	<0.3	<0.3	<0.3	<0.6	<5	--
	5/9/2002	115.19	8.69	106.50	-1.87	<0.25	<2.5	<2.5	<2.5	<2.5	<2.5	--
	9/25/2002	115.19	10.94	104.25	-2.25	0.22	3.8	0.7	<0.5	<1.0	17	--
	1/8/2003	115.19	5.87	109.32	5.07	<0.05	<0.5	<0.5	<0.5	<1.0	2.5	--
	3/25/2003	115.19	6.81	108.38	-0.94	<0.05	<0.5	<0.5	<0.5	<1.0	2.5	--
	6/25/2003	115.19	9.08	106.11	-2.27	0.05	0.9	<0.5	<0.5	<1.0	2.7	--
	10/21/2003	115.19	11.59	103.60	-2.51	0.4	8.4	<0.5	<0.5	<1.0	54.0	--
	2/10/2004	115.19	5.81	109.38	5.78	0.1	1.3	<0.5	<0.5	<1	1.9	--
	10/20/2005	115.19	10.30	104.89	-4.49	<0.025	<0.50	*0.85	<0.50	<0.50	<1.0	--
EW-2	1/19/2006	115.19	4.51	110.68	5.79	<0.050	<0.50	<0.50	<0.50	<0.50	<0.50	--
	4/19/2006	115.19	3.91	111.28	0.60	<0.025	<0.50	<0.50	<0.50	<0.50	4.6	--
	12/15/1998	115.17	6.63	108.54	--	49	10,000	9,600	1,700	7,900	8,200	<10
EW-2	3/30/1999	115.17	4.99	110.18	1.64	64	6,200	9,000	1,100	6,700	2,400	--
	7/14/1999	115.17	10.09	105.08	-5.10	29	2,700	3,500	770	3,500	490	--

**Table 2**  
**Summary of Historical Depth to Water and Groundwater Sample Results**  
**Gasamet #953**  
**Santa Rosa, California**

Location	Date	TOC Elevation (feet amsl)	Groundwater Elevation (feet amsl)	Change in Elevation (feet) (feet)	TPHg (mg/l)	Benzene (ug/l)	Toluene (ug/l)	Ethylbenzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TCE (ug/l)
EW-2 continued											
2/23/2000	115.17	3.56	111.61	6.53	44	3,800	8,200	1,700	10,000	1,200	<1.0
5/24/2000	115.17	7.83	107.34	-4.27	27	1,700	3,500	1,100	5,800	900	--
8/2/2000	115.17	10.09	105.08	-2.26	23	1,400	2,400	880	3,600	13,000	--
11/2/2000	115.17	9.64	105.53	0.45	69	1,600	2,300	860	3,300	79,000	--
2/22/2001	115.17	4.76	110.41	4.88	34	3,220	5,690	1,090	6,350	2,330	--
5/10/2001	115.17	8.86	106.31	-4.10	13.9	559	1,170	520	2,240	1,900	--
8/16/2001	115.17	10.87	104.30	-2.01	17	1,200	1,700	760	2,800	17,000	--
11/29/2001	115.17	6.15	109.02	4.72	23	2,100	3,600	760	4,600	3,400	--
2/7/2002	115.17	7.04	108.13	-0.89	15	894	1,640	490	2,460	1,600	<5
5/9/2002	115.17	8.79	106.38	-1.75	10	730	950	410	1,650	920	--
9/25/2002	115.17	10.94	104.23	-2.15	26	2,500	2,000	1,100	3,700	9,400	--
1/8/2003	115.17	5.15	110.02	5.79	19	1,500	2,300	470	3,000	450	--
3/25/2003	115.17	7.04	108.13	-1.89	5.8	520	350	160	1,300	44	--
6/25/2003	115.17	9.17	106.00	-2.13	6.9	400	570	370	1,200	430	--
10/21/2003	115.17	11.55	103.62	-2.38	14	950	380	650	1,300	14,000	--
2/10/2004	115.17	6.01	109.16	5.54	23	1,800	2,000	510	3,000	530	--
10/20/2005	115.17	10.30	104.87	-4.29	13	1,300	360	650	860	3,800	--
1/19/2006	115.17	4.43	110.74	5.87	3.9	450	360	110	530	90	--
<b>4/19/2006</b>	<b>115.17</b>	<b>4.15</b>	<b>111.02</b>	<b>0.28</b>	<b>3.0</b>	<b>490</b>	<b>510</b>	<b>110</b>	<b>580</b>	<b>200</b>	--
WW-N-1											
2/23/2000	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	49
5/24/2000	--	--	--	0.07	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
8/2/2000	--	--	--	0.06	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
11/2/2000	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	--
2/22/2001	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--
5/10/2001	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--
8/16/2001	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	5.5	--
11/29/2001	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5	<2.5	--
2/7/2002	--	--	--	<0.05	<0.3	<0.3	<0.3	<0.3	<0.6	<5.0	46
5/9/2002	--	--	--	<0.05	<5.0	<5.0	<5.0	<5.0	<5.0	36	--
09/25/02	--	--	--	0.071	<5.0	<5.0	<5.0	<5.0	<5.0	56	--
01/08/03	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	36	--
03/25/03	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	46	--
06/25/03	--	--	--	0.086	<0.5	<0.5	<0.5	<0.5	<1.0	36	--
10/21/03	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	<0.001	33
02/10/04	--	--	--	<0.05	<0.5	<0.5	<0.5	<0.5	<1.0	41	--
10/20/2005	--	--	--	0.092	<0.5	<0.5	<0.5	<0.5	<1.0	43	--
1/19/2006	--	--	--	<0.025	<0.50	<0.50	<0.50	<0.50	<1.0	36	--

Notes.

\* Compound also reported in laboratory method blank sample.

ma/l = milligramme per liter

mg/l = milligrams per liter

ug/l - micrograms per liter

TOC - top of casing

ams| - above mean sea |e

## APPENDIX

A

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-2	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 25.5 feet	Screened Casing Length: 18.5
Well Elevation: 115.16 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 3.41 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 3.61 Gal.	Volumes Purged: 3+
Start Purging Time: 1052	End Purging Time: 1059
Total Time: 7 min.	Flow Gauge: to
Total Volume Purged: 11 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 3.42 feet	Time: 1105
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer	Sampling Method: Disposable Bailer			
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1054	20.1	1617	6.70	4
1056	19.8	1634	6.50	8
1059	19.7	1626	6.47	11
Comments: Clear sample. No odor.				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-5	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length:
Well Elevation: 115.22 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 4.23 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 3.39 Gal.	Volumes Purged: 3+
Start Purging Time: 1158	End Purging Time: 1205
Total Time: 7 min.	Flow Gauge: to
Total Volume Purged: 10.5 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 4.51 feet	Time: 1210
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1200	19.7	635	6.76	3
1202	19.6	644	6.85	7
1205	19.5	639	6.88	10.5
comments: Clear sample. Petroleum odor.				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-6	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 23 feet	Screened Casing Length: 15
Well Elevation: 115.04 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 4.63 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 3.0 Gal.	Volumes Purged: 3+
Start Purging Time: 1215	End Purging Time: 1222
Total Time: 12 min.	Flow Gauge: to
Total Volume Purged: 9 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 5.23 feet	Time: 1230
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1217	18.7	492	6.64	3
1219	18.6	566	6.63	6
1222	18.8	449	6.65	9
comments:				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-7	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: Julio Esquivel
Casing Length: 22 feet	Screened Casing Length:
Well Elevation: 114.22 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 6.40 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.55 Gal.	Volumes Purged:
Start Purging Time: 0946	End Purging Time: 0952
Total Time: 6 min.	Flow Gauge: to
Total Volume Purged: 8 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 9.93 feet	Time: 1005
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
0948	18.7	594	7.14	2.5
0950	18.6	594	6.91	5
0952	18.5	595	6.89	8
comments:				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-8	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 20 feet	Screened Casing Length:
Well Elevation: 114.22 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 4.71 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.50 Gal.	Volumes Purged:
Start Purging Time: 1021	End Purging Time: 1027
Total Time: 6 min.	Flow Gauge: to
Total Volume Purged: 7.5 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 10.0 feet	Time: 1035
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer	Sampling Method: Disposable Bailer			
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1023	17.9	479	7.00	2.5
1025	18.0	475	7.12	5
1027	18.3	489	6.96	7.5
comments: Turbid – no odor.				

# MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-9	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 20 feet	Screened Casing Length:
Well Elevation: 115.36 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 5.46 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.37 Gal.	Volumes Purged:
Start Purging Time: 1037	End Purging Time: 1043
Total Time: 6 min.	Flow Gauge: to
Total Volume Purged: 7.5 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 5.60 feet	Time: 1050
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1039	18.4	867	6.60	2.5
1041	18.4	905	6.65	5
1043	18.4	908	6.69	7.5
comments: Turbid – slight odors.				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: MW-10	Date: 4/19/06
Well Diameter: 2 in.	Field Personnel: John Love
Casing Length: 20 feet	Screened Casing Length:
Well Elevation: 115.70 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 4.50 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 2.53 Gal.	Volumes Purged:
Start Purging Time: 1007	End Purging Time: 1013
Total Time: 6 min.	Flow Gauge: to
Total Volume Purged: 8 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 7.14 feet	Time: 1020
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Disposable Bailer		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1009	18.3	515	7.22	2.5
1011	18.9	574	6.97	5
1013	19.0	608	6.96	8
Comments: Turbid – no odor.				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: EW-1	Date: 4/19/06
Well Diameter: 4 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length:
Well Elevation: 115.19 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 3.91 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 13.77 Gal.	Volumes Purged:
Start Purging Time: 1108	End Purging Time: 1135
Total Time: 27 min.	Flow Gauge: to
Total Volume Purged: 42 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 3.95 feet	Time: 1140
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Centrifugal Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1117	20.6	587	6.84	14
1126	20.7	553	6.87	28
1135	20.5	551	6.96	42
Comments: Clear water – no odor.				

## MONITORING WELL SAMPLING DATA

<b>Project Name:</b> Gasamat – Santa Rosa	<b>Project Number:</b> E8299-06-01
Well No.: EW-2	Date: 4/19/06
Well Diameter: 4 in.	Field Personnel: John Love
Casing Length: 25 feet	Screened Casing Length:
Well Elevation: 115.17 feet MSL measured from TOC	

<b>PURGE CHARACTERISTICS</b>	
Water Depth Before Purging: 4.15 ft.	2 in. = .1632 Gal/ft. 4 in. = .6528 Gal/ft.
Calculated Water Column Volume: 13.61 Gal.	Volumes Purged:
Start Purging Time: 1232	End Purging Time: 1259
Total Time: 27 min.	Flow Gauge: to
Total Volume Purged: 41 Gal.	Avg. Flow Rate: gpm
Water Depth After Purging: 4.39 feet	Time: 1305
Dissolved Oxygen: mg/l	Free Product: (Y/N); Thickness: inches

<b>SAMPLING CHARACTERISTICS</b>				
Purging Method: Centrifugal Pump		Sampling Method: Disposable Bailer		
Laboratory Analysis: TPHg, BTEX, MTBE				
TIME	TEMPERATURE (°C)	CONDUCTIVITY (umhos/cm)	pH	Gallons Purged
1241	20.5	674	6.84	14
1250	19.9	667	6.87	28
1259	19.9	675	6.99	41
comments: Clear sample. Some organics in water. Petroleum odor.				

## APPENDIX

B

# **Entech Analytical Labs, Inc.**

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**3334 Victor Court , Santa Clara, CA 95054**

**Phone: (408) 588-0200**

**Fax: (408) 588-0201**

**John Love  
Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550**

**Lab Certificate Number: 49050  
Issued: 05/04/2006**

**Project Number: E8299-06-01**

**Global ID: T0609700489**

**Project Name: Gasmat**

**Project Location: Santa Rosa**

## **Certificate of Analysis - Final Report**

On April 20, 2006, samples were received under chain of custody for analysis.

Entech analyzes samples "as received" unless otherwise noted. The following results are included:

<u>Matrix</u>	<u>Test / Comments</u>
Liquid	Electronic Deliverables EPA 8260B for Groundwater and Water - EPA 624 for Wastewater TPH-Purgeable by GC/MS

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).  
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



Laurie Glantz-Murphy  
Laboratory Director

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab #: 49050-007    Sample ID: MW-1    Matrix: Liquid    Sample Date: 4/19/2006    11:55 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/26/2006	WM1060426

### Surrogate      Surrogate Recovery      Control Limits (%)

4-Bromofluorobenzene	97.5	60	-	130	Analyzed by: XBian
Dibromofluoromethane	108	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	97.5	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/26/2006	WM1060426
<b>Surrogate</b>	<b>Surrogate Recovery</b>	<b>Control Limits (%)</b>							Analyzed by: XBian
4-Bromofluorobenzene	99.7		60	-	130				Reviewed by: MaiChiTu
Dibromofluoromethane	95.8		60	-	130				
Toluene-d8	102		60	-	130				

# Entech Analytical Labs, Inc.

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Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab # : 49050-005    Sample ID: MW-2

Matrix: Liquid    Sample Date: 4/19/2006    11:05 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/26/2006	WM1060426

#### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	100	60	-	130	Analyzed by: XBian
Dibromofluoromethane	107	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	96.1	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/26/2006	WM1060426
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene      102      60      -      130									
Dibromofluoromethane      95.4      60      -      130									
Toluene-d8      100      60      -      130									

# **Entech Analytical Labs, Inc.**

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**Phone: (408) 588-0200**

Fax: (408) 588-0201

**Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love**

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

**Lab #:** 49050-008      **Sample ID:** MW-5

Matrix: Liquid Sample Date: 4/19/2006 12:10 PM

EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	150		5.0	2.5	µg/L	N/A	N/A	4/28/2006	WM1060428
Toluene	110		5.0	2.5	µg/L	N/A	N/A	4/28/2006	WM1060428
Ethyl Benzene	66		5.0	2.5	µg/L	N/A	N/A	4/28/2006	WM1060428
Xylenes, Total	290		5.0	2.5	µg/L	N/A	N/A	4/28/2006	WM1060428
Methyl-t-butyl Ether	140		5.0	5.0	µg/L	N/A	N/A	4/28/2006	WM1060428

**Surrogate**                    **Surrogate Recovery**            **Control Limits (%)**

Analyzed by: XBian

Reviewed by: MaiChiTu

Dibromofluoromethane 104 60 - 130

Toluene d <sub>8</sub>	96.9	60	-	130
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EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1700		5.0	120	µg/L	N/A	N/A	4/28/2006	WM1060428
<b>Surrogate</b>	<b>Surrogate Recovery</b>			<b>Control Limits (%)</b>					Analyzed by: XBian
4-Bromofluorobenzene	101		60	-	130				Reviewed by: MaiChiTu
Dibromofluoromethane	92.3		60	-	130				
Toluene-d8	101		60	-	130				

PH as Gasoline 1700 5.0 12

4/28/2006

**Surrogate**      **Surrogate Recovery**      **Control Limits (%)**      Analyzed by: XBian

4-Bromofluorobenzene 101 60 - 130

Dibromofluoromethane 92.3 60 - 130

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

5/4/2006 7:33:50 PM - dba

Entech Analytical Labs, Inc.

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**Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love**

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

**Lab # :** 49050-009      **Sample ID:** MW-6

Matrix: Liquid Sample Date: 4/19/2006 12:30 PM

EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

EPA 600-C / EPA 600-B for Groundwater and Water		EPA 624 for Wastewater								
Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch	
Benzene	4100		200	100	µg/L	N/A	N/A	4/28/2006	WM1060428	
Toluene	7600		200	100	µg/L	N/A	N/A	4/28/2006	WM1060428	
Ethyl Benzene	3000		200	100	µg/L	N/A	N/A	4/28/2006	WM1060428	
Xylenes, Total	13000		200	100	µg/L	N/A	N/A	4/28/2006	WM1060428	
Methyl-t-butyl Ether	2000		200	200	µg/L	N/A	N/A	4/28/2006	WM1060428	

Surrogate	Surrogate Recovery	Control Limits (%)
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Analyzed by: XBian

4-Bromofluorobenzene 98.0 60 - 130

Reviewed by: MaiChiTu

Dibromofluoromethane	106	60	-	130
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Bis(ether)acetone	100	60	150
Toluene d <sub>8</sub>	95.8	60	130

#### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	54000		200	5000	µg/L	N/A	N/A	4/28/2006	WM1060428
<b>Surrogate                      Surrogate Recovery                      Control Limits (%)</b>									
4-Bromofluorobenzene	100		60	-	130				Reviewed by: MaiChiTu
Dibromofluoromethane	94.1		60	-	130				
Toluene-d8	100		60	-	130				

**Surrogate**                    **Surrogate Recovery**                    **Control Limits (%)**

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Analyzed by: XBian

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	100	60 - 130

Analyzed by: ABian

4-Bromonitrobenzene	100	60	-	130
Dibromo- <i>p</i> -methane	94.1	60	-	120

Dibromofluoromethane	94.1	60	-	130
T. 4	18	10.6	61	120

Detection Limit = Detection Limit for Reporting.

ND = Not Detected at or above the Detection Limit.

D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.

Qual = Data Qualifier

5/4/2006 7:33:50 PM - dba

# Entech Analytical Labs, Inc.

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Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab # : 49050-001    Sample ID: MW-7

Matrix: Liquid    Sample Date: 4/19/2006    10:05 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Methyl-t-butyl Ether	4.6		1.0	1.0	µg/L	N/A	N/A	4/26/2006	WM1060426

### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	100	60	-	130	Analyzed by: XBian
Dibromofluoromethane	107	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	96.6	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/26/2006	WM1060426
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene      103      60      -      130									
Dibromofluoromethane      94.7      60      -      130									
Toluene-d8      101      60      -      130									

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Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab # : 49050-003    Sample ID: MW-8

Matrix: Liquid    Sample Date: 4/19/2006    10:35 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/26/2006	WM1060426

#### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	97.1	60	-	130	Analyzed by: XBian
Dibromofluoromethane	108	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	98.1	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/26/2006	WM1060426
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
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Reviewed by: MaiChiTu									
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Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054

Phone: (408) 588-0200

Fax: (408) 588-0201

Geocon Consultants  
2356 Research Drive  
Livermore, CA 94550  
Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab #: 49050-004    Sample ID: MW-9

Matrix: Liquid    Sample Date: 4/19/2006    10:50 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	85		2.0	1.0	µg/L	N/A	N/A	4/28/2006	WM1060428
Toluene	7.7		2.0	1.0	µg/L	N/A	N/A	4/28/2006	WM1060428
Ethyl Benzene	53		2.0	1.0	µg/L	N/A	N/A	4/28/2006	WM1060428
Xylenes, Total	6.6		2.0	1.0	µg/L	N/A	N/A	4/28/2006	WM1060428
Methyl-t-butyl Ether	36		2.0	2.0	µg/L	N/A	N/A	4/28/2006	WM1060428

### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	99.7	60	-	130	Analyzed by: XBian
Dibromofluoromethane	106	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	95.5	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	1500		2.0	50	µg/L	N/A	N/A	4/28/2006	WM1060428
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene      102      60      -      130									
Dibromofluoromethane      94.3      60      -      130									
Toluene-d8      99.7      60      -      130									

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Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab # : 49050-002    Sample ID: MW-10

Matrix: Liquid    Sample Date: 4/19/2006    10:20 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/28/2006	WM1060428
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/28/2006	WM1060428
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/28/2006	WM1060428
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/28/2006	WM1060428
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/28/2006	WM1060428

### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	101	60	-	130	Analyzed by: XBian
Dibromofluoromethane	112	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	97.5	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/28/2006	WM1060428
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene      103      60      -      130									
Dibromofluoromethane      99.2      60      -      130									
Toluene-d8      102      60      -      130									

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Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab #: 49050-006    Sample ID: EW-1    Matrix: Liquid    Sample Date: 4/19/2006    11:40 AM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/26/2006	WM1060426
Methyl-t-butyl Ether	4.6		1.0	1.0	µg/L	N/A	N/A	4/26/2006	WM1060426

### Surrogate              Surrogate Recovery              Control Limits (%)

4-Bromofluorobenzene	97.8	60	-	130	Analyzed by: XBian
Dibromofluoromethane	110	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	96.7	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/26/2006	WM1060426
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
<b>Surrogate</b>									
4-Bromofluorobenzene									
100									
60									
130									
Dibromofluoromethane									
97.6									
60									
130									
Toluene-d8									
101									
60									
130									

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Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab # : 49050-010    Sample ID: EW-2                          Matrix: Liquid    Sample Date: 4/19/2006    1:05 PM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	490		20	10	µg/L	N/A	N/A	4/28/2006	WM1060428
Toluene	510		20	10	µg/L	N/A	N/A	4/28/2006	WM1060428
Ethyl Benzene	110		20	10	µg/L	N/A	N/A	4/28/2006	WM1060428
Xylenes, Total	580		20	10	µg/L	N/A	N/A	4/28/2006	WM1060428
Methyl-t-butyl Ether	200		20	20	µg/L	N/A	N/A	4/28/2006	WM1060428

### Surrogate                      Surrogate Recovery                      Control Limits (%)

4-Bromofluorobenzene	99.3	60	-	130	Analyzed by: XBian
Dibromofluoromethane	105	60	-	130	Reviewed by: MaiChiTu
Toluene-d8	97.5	60	-	130	

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	3000		20	500	µg/L	N/A	N/A	4/28/2006	WM1060428
<b>Surrogate                      Surrogate Recovery                      Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene        101                      60    -    130									
Dibromofluoromethane        93.5                      60    -    130									
Toluene-d8                    102                              60    -    130									

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Attn: John Love

Project Number: E8299-06-01  
Project Name: Gasmat  
Project Location: Santa Rosa  
GlobalID: T0609700489

## Certificate of Analysis - Data Report

Samples Received: 04/20/2006  
Sample Collected by: Client

Lab #: 49050-011    Sample ID: WW-1    Matrix: Liquid    Sample Date: 4/19/2006    1:10 PM

### EPA 5030C - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/27/2006	WM1060426
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	4/27/2006	WM1060426
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	4/27/2006	WM1060426
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	4/27/2006	WM1060426
Trichloroethene	37		1.0	0.50	µg/L	N/A	N/A	4/27/2006	WM1060426
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	4/27/2006	WM1060426

### Surrogate              Surrogate Recovery              Control Limits (%)

Analyzed by: XBian

4-Bromofluorobenzene	97.7	60	-	130
Dibromofluoromethane	109	60	-	130
Toluene-d8	95.9	60	-	130

Reviewed by: MaiChiTu

### EPA 5030C - TPH-Purgeable by GC/MS

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	25	µg/L	N/A	N/A	4/27/2006	WM1060426
<b>Surrogate              Surrogate Recovery              Control Limits (%)</b>									
Analyzed by: XBian									
Reviewed by: MaiChiTu									
4-Bromofluorobenzene      99.9      60      -      130									
Dibromofluoromethane      97.1      60      -      130									
Toluene-d8      100      60      -      130									

# Entech Analytical Labs, Inc.

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## Method Blank - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060426

Validated by: MaiChiTu - 04/27/06

QC Batch Analysis Date: 4/26/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	99.7	60 - 130
Dibromofluoromethane	105	60 - 130
Toluene-d8	95.9	60 - 130

## Method Blank - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060426

Validated by: MaiChiTu - 04/27/06

QC Batch Analysis Date: 4/26/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Toluene	ND	1	0.50	µg/L
Trichloroethene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	99.7	70 - 125
Dibromofluoromethane	105	70 - 125
Toluene-d8	95.9	70 - 125

## Method Blank - Liquid - TPH-Purgeable by GC/MS

QC Batch ID: WM1060426

Validated by: MaiChiTu - 04/27/06

QC Batch Analysis Date: 4/26/2006

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

Surrogate for Blank % Recovery Control Limits

4-Bromofluorobenzene	102	60 - 130
Dibromofluoromethane	93.0	60 - 130
Toluene-d8	100	60 - 130

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## Method Blank - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060428

Validated by: MaiChiTu - 05/01/06

QC Batch Analysis Date: 4/28/2006

Parameter	Result	DF	PQLR	Units
Benzene	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Toluene	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

### Surrogate for Blank    % Recovery    Control Limits

4-Bromofluorobenzene	98.8	60 - 130
Dibromofluoromethane	108	60 - 130
Toluene-d8	96.3	60 - 130

## Method Blank - Liquid - TPH-Purgeable by GC/MS

QC Batch ID: WM1060428

Validated by: MaiChiTu - 05/01/06

QC Batch Analysis Date: 4/28/2006

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	25	µg/L

### Surrogate for Blank    % Recovery    Control Limits

4-Bromofluorobenzene	101	60 - 130
Dibromofluoromethane	96.3	60 - 130
Toluene-d8	100	60 - 130

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054      Phone: (408) 588-0200    Fax: (408) 588-0201

LCS / LCSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060426

Reviewed by: MaiChiTu - 04/27/06

QC Batch ID Analysis Date: 4/26/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Benzene	<0.50	20	21.0	µg/L	105	70 - 130
Methyl-t-butyl Ether	<1.0	20	24.7	µg/L	124	70 - 130
Toluene	<0.50	20	20.1	µg/L	100	70 - 130

## Surrogate

% Recovery      Control Limits

4-Bromofluorobenzene	95.1	60 - 130
Dibromofluoromethane	105.0	60 - 130
Toluene-d8	91.4	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	<0.50	20	20.8	µg/L	104	0.96	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	25.6	µg/L	128	3.6	25.0	70 - 130
Toluene	<0.50	20	20.4	µg/L	102	1.5	25.0	70 - 130

## Surrogate

% Recovery      Control Limits

4-Bromofluorobenzene	98.1	60 - 130
Dibromofluoromethane	106.0	60 - 130
Toluene-d8	92.6	60 - 130

LCS / LCSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060426

Reviewed by: MaiChiTu - 04/27/06

QC Batch ID Analysis Date: 4/26/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.9	µg/L	94.5	70 - 130
Benzene	<0.50	20	21.0	µg/L	105	70 - 130
Chlorobenzene	<0.50	20	21.0	µg/L	105	70 - 130
Methyl-t-butyl Ether	<1.0	20	24.7	µg/L	124	70 - 130
Toluene	<0.50	20	20.1	µg/L	100	70 - 130
Trichloroethene	<0.50	20	21.1	µg/L	106	70 - 130

## Surrogate

% Recovery      Control Limits

4-Bromofluorobenzene	95.1	60 - 130
Dibromofluoromethane	105.0	60 - 130
Toluene-d8	91.4	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.9	µg/L	94.5	0.0	25.0	70 - 130
Benzene	<0.50	20	20.8	µg/L	104	0.96	25.0	70 - 130
Chlorobenzene	<0.50	20	21.3	µg/L	106	1.4	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	25.6	µg/L	128	3.6	25.0	70 - 130
Toluene	<0.50	20	20.4	µg/L	102	1.5	25.0	70 - 130
Trichloroethene	<0.50	20	21.0	µg/L	105	0.48	25.0	70 - 130

## Surrogate

% Recovery      Control Limits

4-Bromofluorobenzene	98.1	60 - 130
Dibromofluoromethane	106.0	60 - 130
Toluene-d8	92.6	60 - 130

# Entech Analytical Labs, Inc.

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LCS / LCSD - Liquid - TPH-Purgeable by GC/MS

QC Batch ID: WM1060426

Reviewed by: MaiChiTu - 04/27/06

QC Batch ID Analysis Date: 4/26/2006

## LCS

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline		<25	120	128	µg/L	103	65 - 135
<b>Surrogate</b> % Recovery Control Limits							
4-Bromofluorobenzene		102.0	60	-	130		
Dibromofluoromethane		92.8	60	-	130		
Toluene-d8		98.7	60	-	130		

## LCSD

Parameter	Method	Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline		<25	120	126	µg/L	100	2.2	25.0	65 - 135
<b>Surrogate</b> % Recovery Control Limits									
4-Bromofluorobenzene		101.0	60	-	130				
Dibromofluoromethane		91.0	60	-	130				
Toluene-d8		99.2	60	-	130				

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LCS / LCSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060428

Reviewed by: MaiChiTu - 05/01/06

QC Batch ID Analysis Date: 4/28/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.0	µg/L	95.0	70 - 130
Benzene	<0.50	20	21.2	µg/L	106	70 - 130
Chlorobenzene	<0.50	20	20.7	µg/L	104	70 - 130
Methyl-t-butyl Ether	<1.0	20	25.7	µg/L	128	70 - 130
Toluene	<0.50	20	20.0	µg/L	100	70 - 130
Trichloroethene	<0.50	20	20.8	µg/L	104	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	100.0	60 - 130
Dibromofluoromethane	106.0	60 - 130
Toluene-d8	93.6	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	18.6	µg/L	93.0	2.1	25.0	70 - 130
Benzene	<0.50	20	20.9	µg/L	104	1.4	25.0	70 - 130
Chlorobenzene	<0.50	20	20.7	µg/L	104	0.0	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	25.9	µg/L	130	0.78	25.0	70 - 130
Toluene	<0.50	20	20.1	µg/L	100	0.50	25.0	70 - 130
Trichloroethene	<0.50	20	20.3	µg/L	102	2.4	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	100.0	60 - 130
Dibromofluoromethane	108.0	60 - 130
Toluene-d8	93.7	60 - 130

LCS / LCSD - Liquid - TPH-Purgeable by GC/MS

QC Batch ID: WM1060428

Reviewed by: MaiChiTu - 05/01/06

QC Batch ID Analysis Date: 4/28/2006

## LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<25	120	136	µg/L	108	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	104.0	60 - 130
Dibromofluoromethane	94.2	60 - 130
Toluene-d8	100.0	60 - 130

## LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<25	120	126	µg/L	100	7.7	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	104.0	60 - 130
Dibromofluoromethane	90.9	60 - 130
Toluene-d8	101.0	60 - 130

# Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM1060426

Reviewed by: MaiChiTu - 05/01/06

QC Batch ID Analysis Date: 4/26/2006

MS Sample Spiked: 49050-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
Benzene	ND	20	20.6	µg/L	4/26/2006	103	70 - 130
Methyl-t-butyl Ether	ND	20	26.2	µg/L	4/26/2006	131	70 - 130 ***
Toluene	ND	20	20.0	µg/L	4/26/2006	100	70 - 130

\*\*\*The % recovery for MTBE was outside of the QC limits. However, the batch was accepted based on the LCS/LCSD recoveries.

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	99.1	60 - 130
Dibromofluoromethane	105.0	60 - 130
Toluene-d8	93.8	60 - 130

MSD Sample Spiked: 49050-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
Benzene	ND	20	20.8	µg/L	4/26/2006	104	0.97	25.0	70 - 130
Methyl-t-butyl Ether	ND	20	25.5	µg/L	4/26/2006	128	2.7	25.0	70 - 130
Toluene	ND	20	19.9	µg/L	4/26/2006	99.5	0.50	25.0	70 - 130

Surrogate % Recovery Control Limits

4-Bromofluorobenzene	96.1	60 - 130
Dibromofluoromethane	107.0	60 - 130
Toluene-d8	94.1	60 - 130

## Entech Analytical Labs, Inc. Chain of Custody / Analysis Requests

3334 Victor Court  
Santa Clara, CA 95054  
(408) 588-0201

(408) 588-0200  
(408) 588-0201

3334 Victor Court  
Santa Clara, CA 95054  
(408) 588-0200  
(408) 588-0201 - Fax

ELAP No. 2346

Attention

Phone No.: 231-371-6666 Purchase Order No.:

Invoice to: (If Different)

Phone:

Company Name:  
**Geocom**

me:  
Geocom

Fax No.: 925-371-5915

Project No. / Name:  
**Gasamat Sinta Rosci**

Company:

1

**City:** Los Angeles

State: Zip Code:  
A 660

Project Location:

City: Los

State:

Enitech Order ID:		Turn Around Time		Applicable	
<b>EDF</b>	Global ID:	<b>TD609700489</b>	<input type="checkbox"/> Same Day <input type="checkbox"/> 2 Day <input checked="" type="checkbox"/> 4 Day <input type="checkbox"/> 10 Day		<input type="checkbox"/> 1 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 5 Day
Sampler <u>JAE</u>		Sample Information			
Client ID	Field Point	Date	Time	Enitech Lab. No.	Circle Matrix
MW-7	DO	4/10/06	1005	100	4m
MW-10	DO	4/10/06	1020		
MW-8	DO	4/10/06	1035		
MW-9	DO	4/10/06	1050		
MW-2	DO	4/10/06	1105		
EV-1	DO	4/10/06	1140		
MW-1	DO	4/10/06	1155		
MW-5	DO	4/10/06	1210		
MW-6	DO	4/10/06	1230		
EV-2	DO	4/10/06	1305		
WW-	DO	4/10/06	1310		
Relin. Discreted by: <u>John</u>		Received By: <u>John</u>	Date: 4/10/06	Time: 12:20	Lab Use:
Relinquished by: <u>John</u>		Released by: <u>John</u>	Date: 4/10/06	Time: 1322	
Relin. Discreted by: <u>John</u>		Received by:	Date:	Time:	Metals: <input type="checkbox"/> Al, As, Sb, Ba, Be, Bi, B, Cd, Ca, Cr, Co, Cu, Fe, Pb, Li, Mg, Mn, Hg, Mo, Ni, K, Si, Ag, Na, Se, Ti, Sn, Ti, Zn, V <input type="checkbox"/> Plating: <input type="checkbox"/> LUFT-5 <input type="checkbox"/> RCRA-8 <input type="checkbox"/> PPM-13 <input type="checkbox"/> CAM-17

Lab Use

**Samples:** Iced Y/N      **Temperature:** \_\_\_\_\_  
**Appropriate Containers/Preservatives:** Y/N  
**Labels match CoC?** Y/N      **Headspace?** Y/N

Shipment Method: \_\_\_\_\_  
Custody Seals? Y/N  
Separate Receipt Log Y/N

If any N's, Explain: